

FIG. 1A

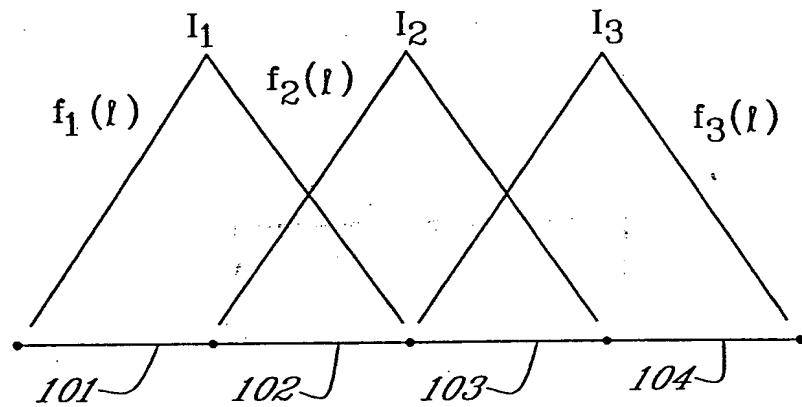


FIG. 1B

100 ↗

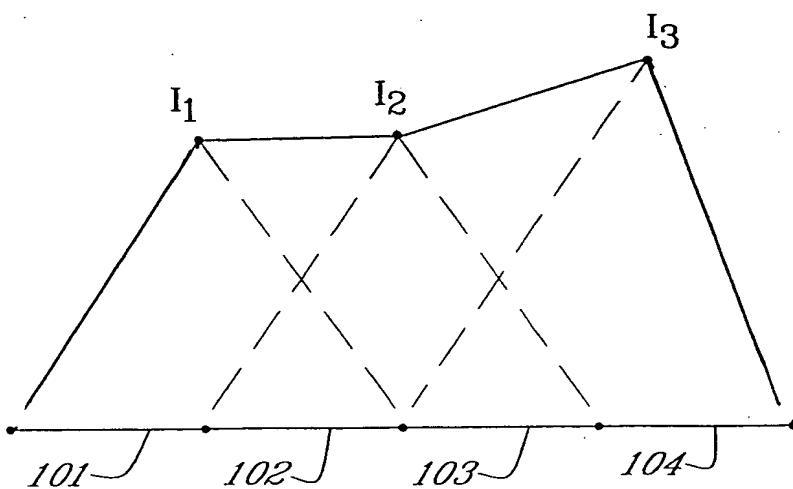


FIG. 1C

100 ↗

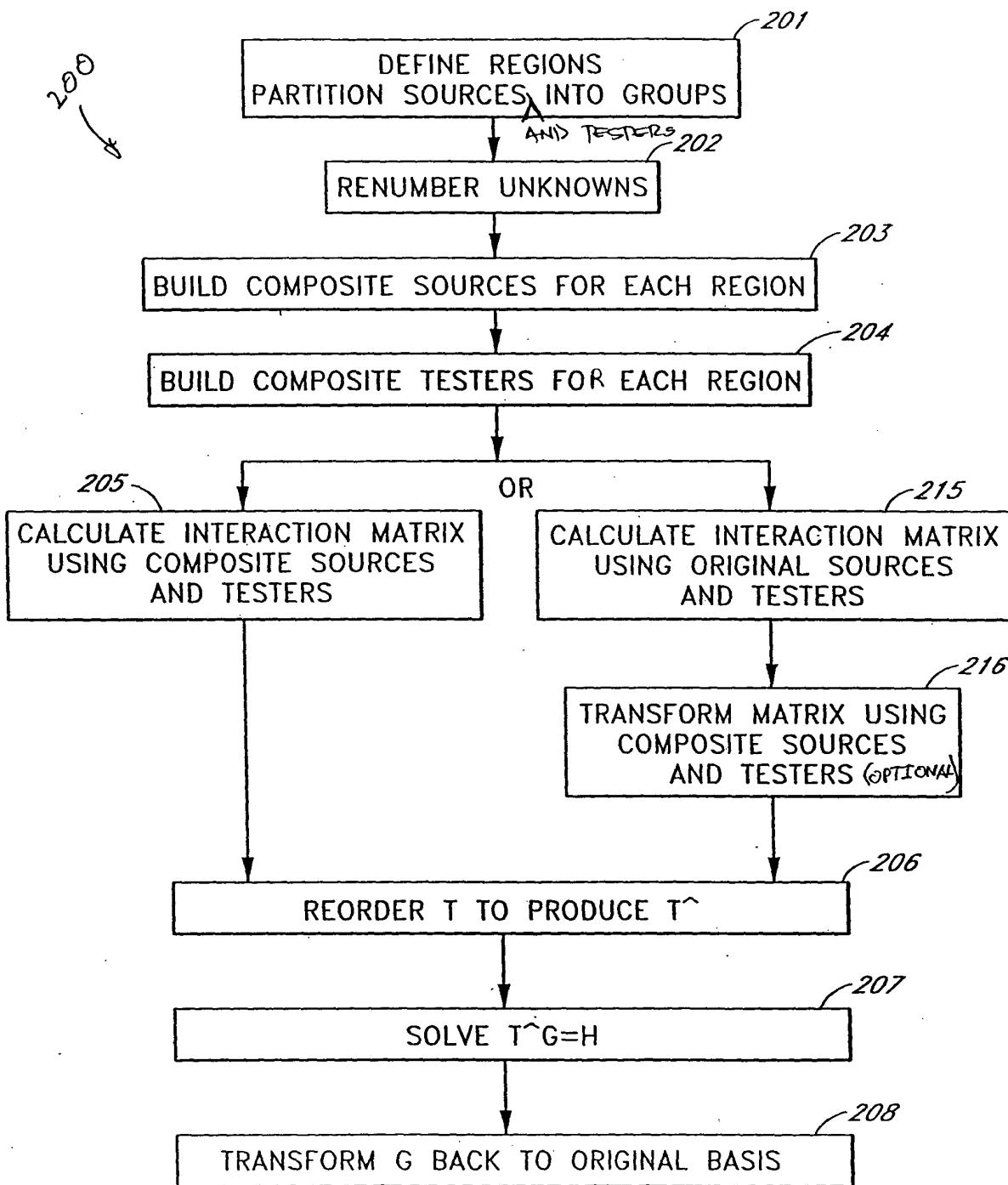


FIG. 2

SPARSE AND EFFICIENT BLOCK FACTORIZATION FOR
INTERACTION DATA
Francis X. Canning
Appl. No.: Unknown Atty Docket: CANNING.001CP2

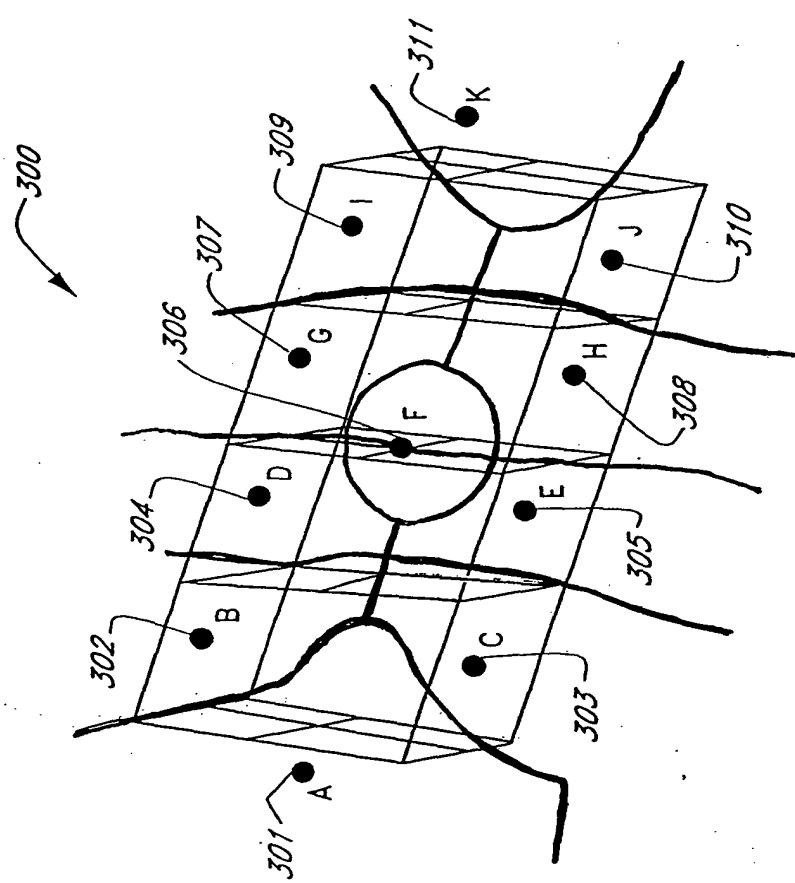


FIG. 3

SPARSE AND EFFICIENT BLOCK FACTORIZATION FOR
INTERACTION DATA
Francis X. Canning
Appl. No.: Unknown Atty Docket: CANNING.001CP2

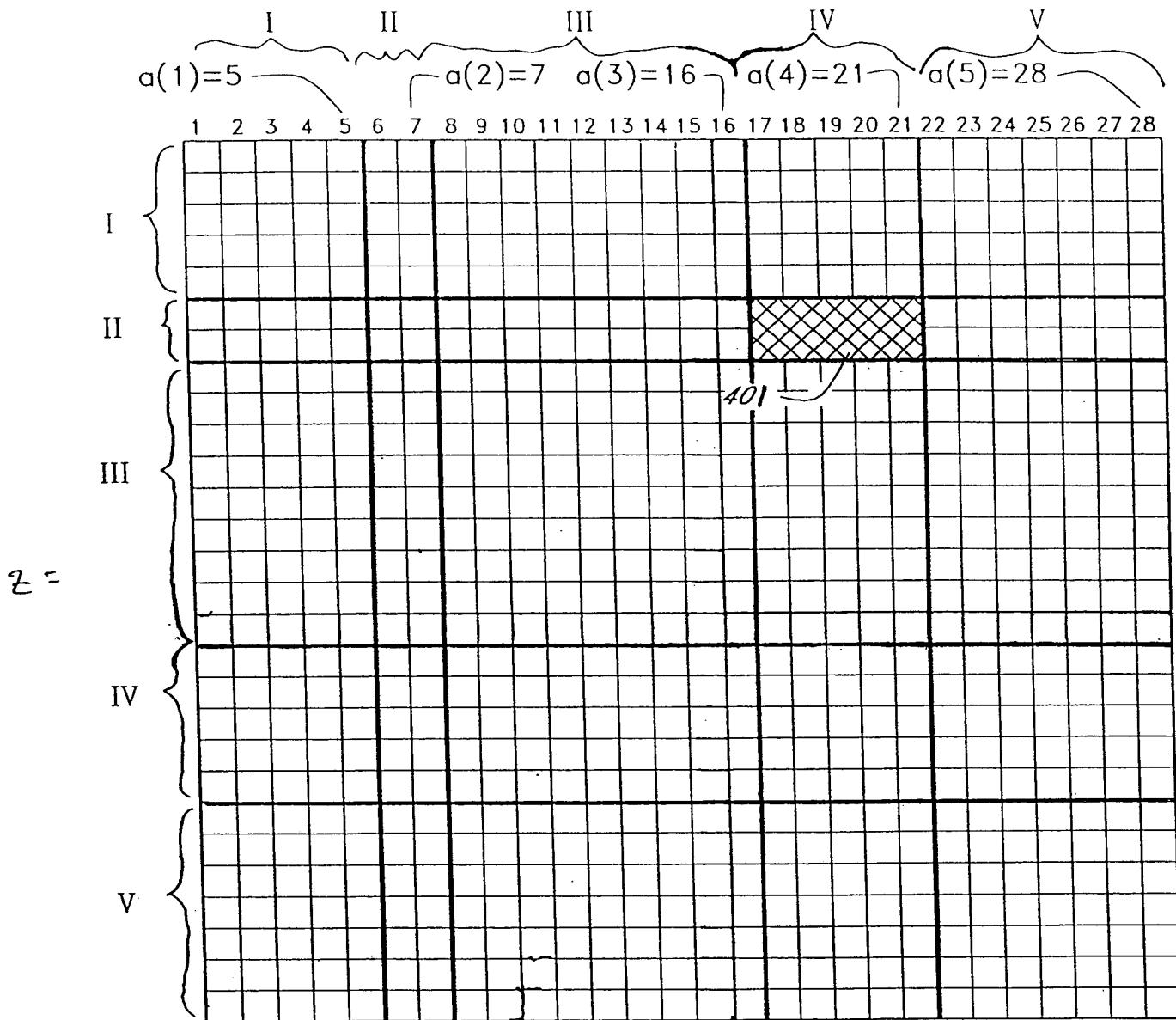
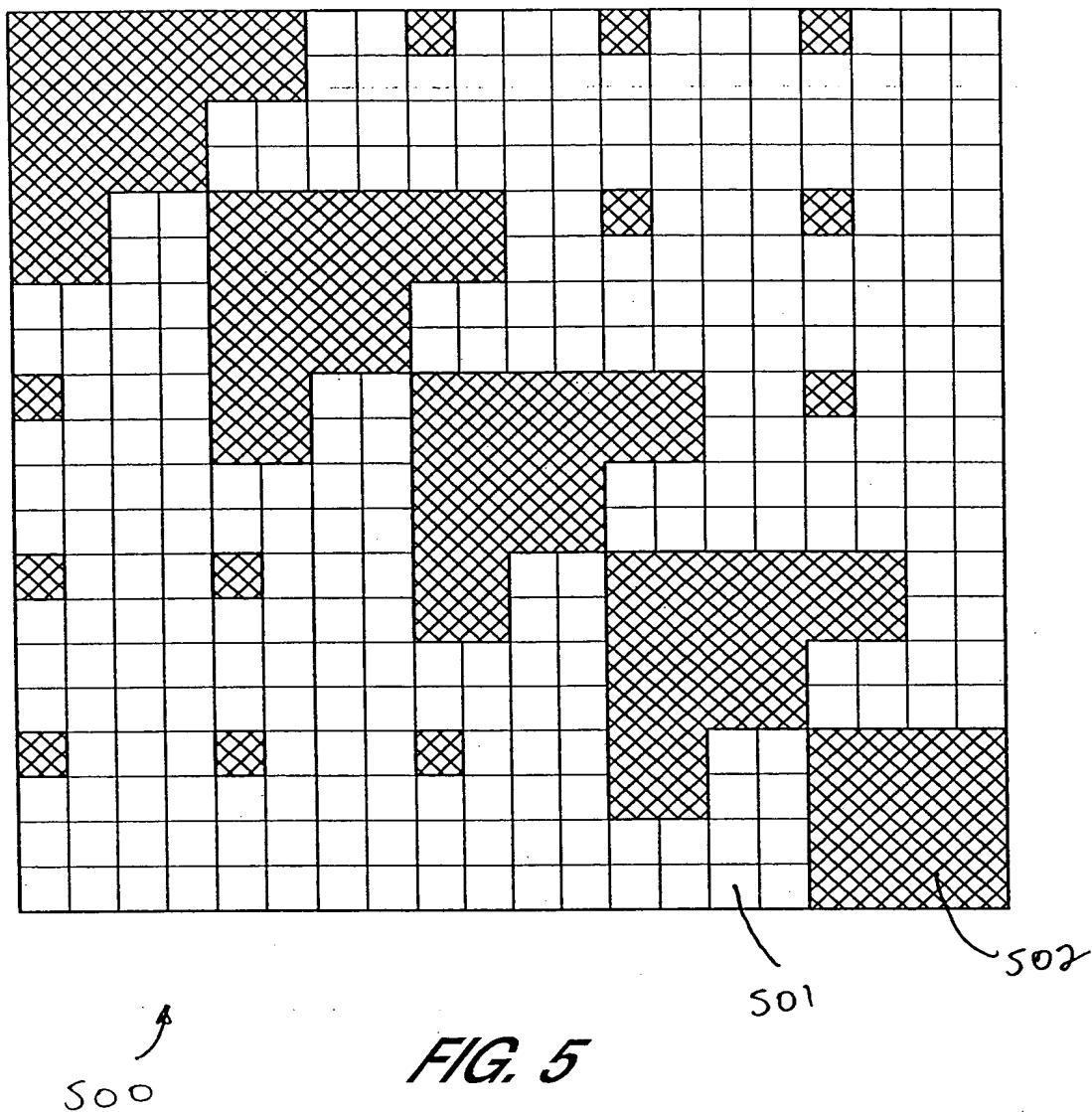


FIG. 4

400

*SPARSE AND EFFICIENT BLOCK FACTORIZATION FOR
INTERACTION DATA*
Francis X. Canning
Appl. No.: Unknown Atty Docket: CANNING.001CP2



SPARSE AND EFFICIENT BLOCK FACTORIZATION FOR
INTERACTION DATA
Francis X. Canning
Appl. No.: Unknown Atty Docket: CANNING.001 CP2

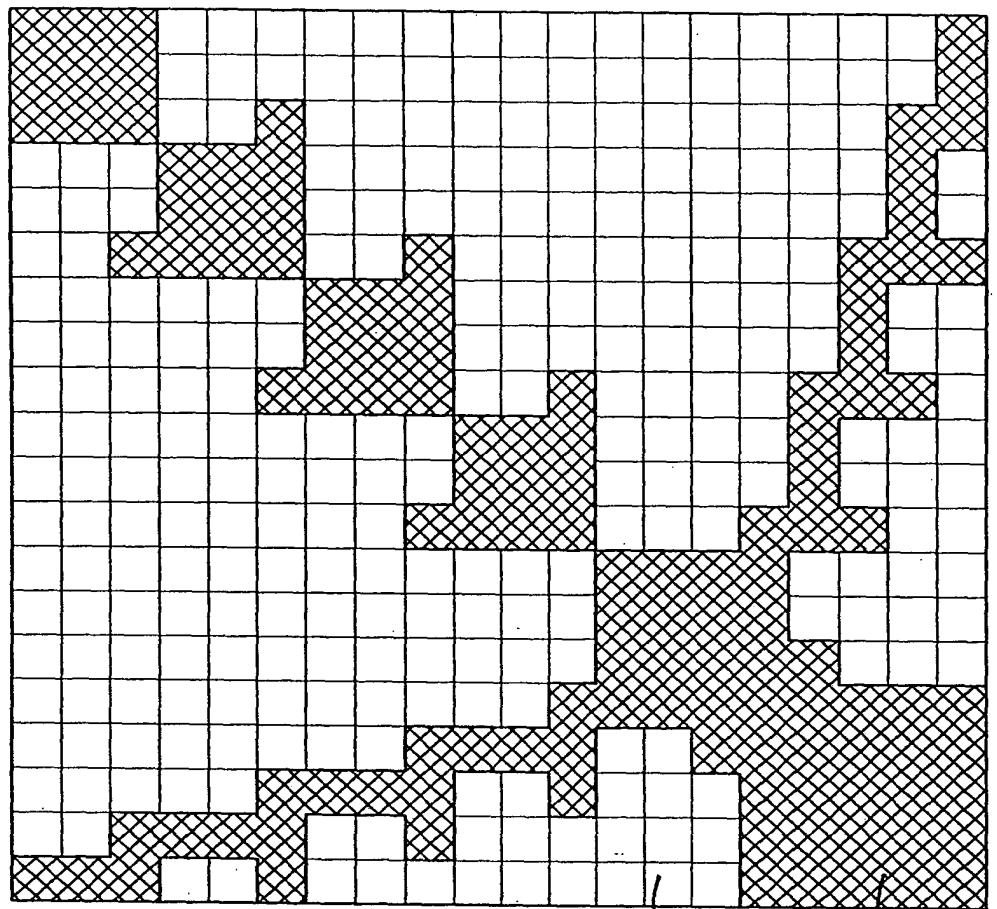
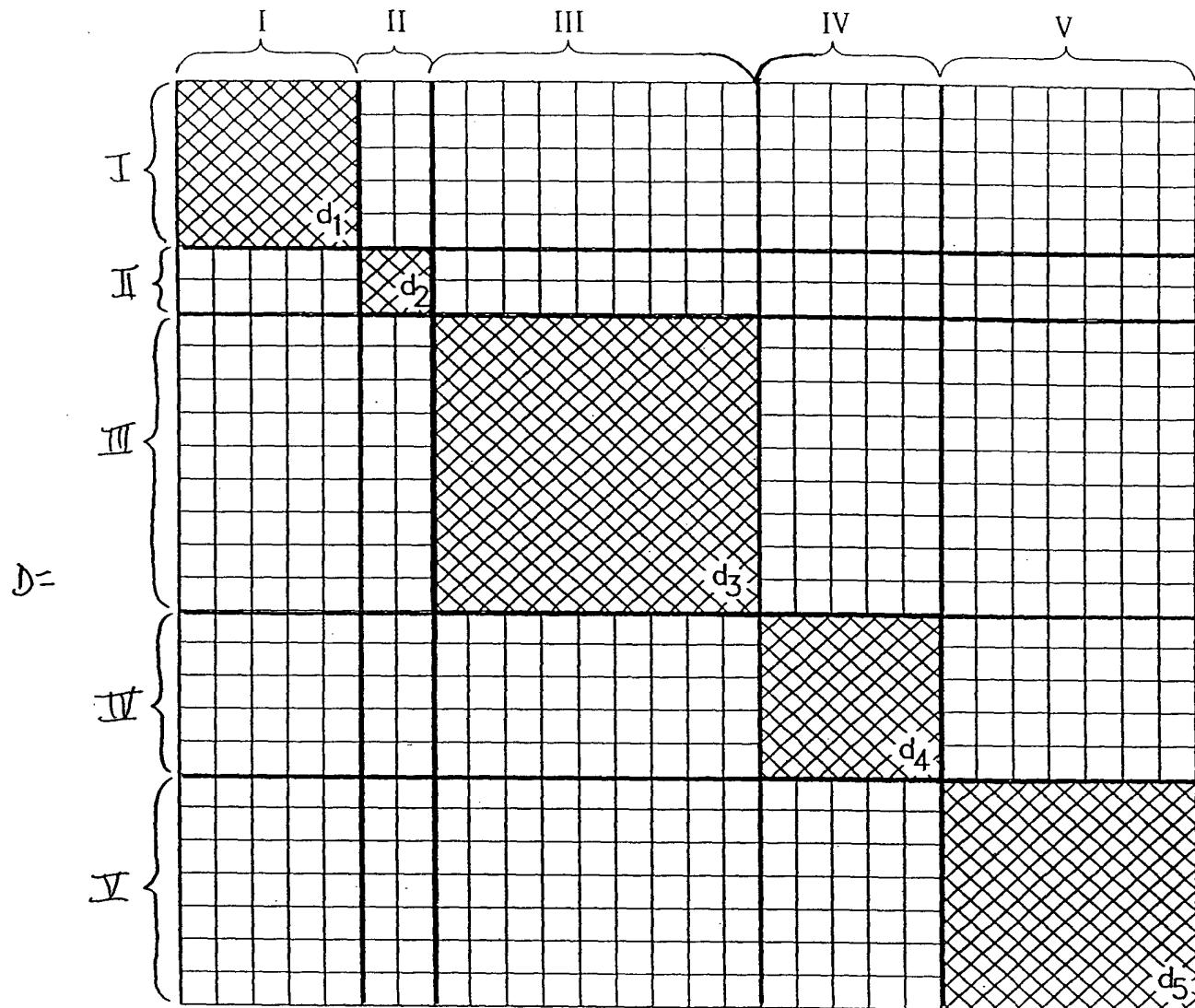


FIG. 6



100 → FIG. 7

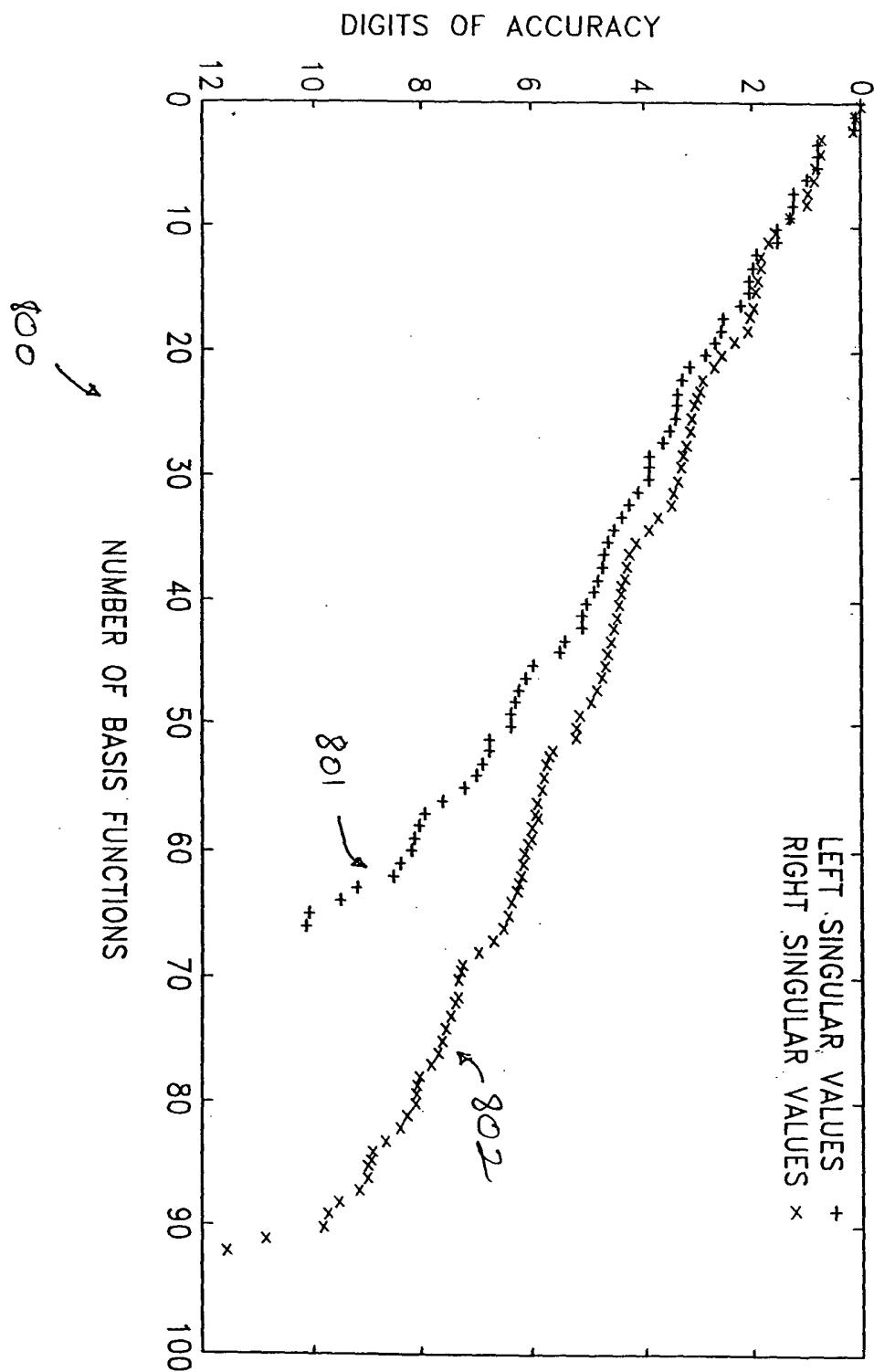
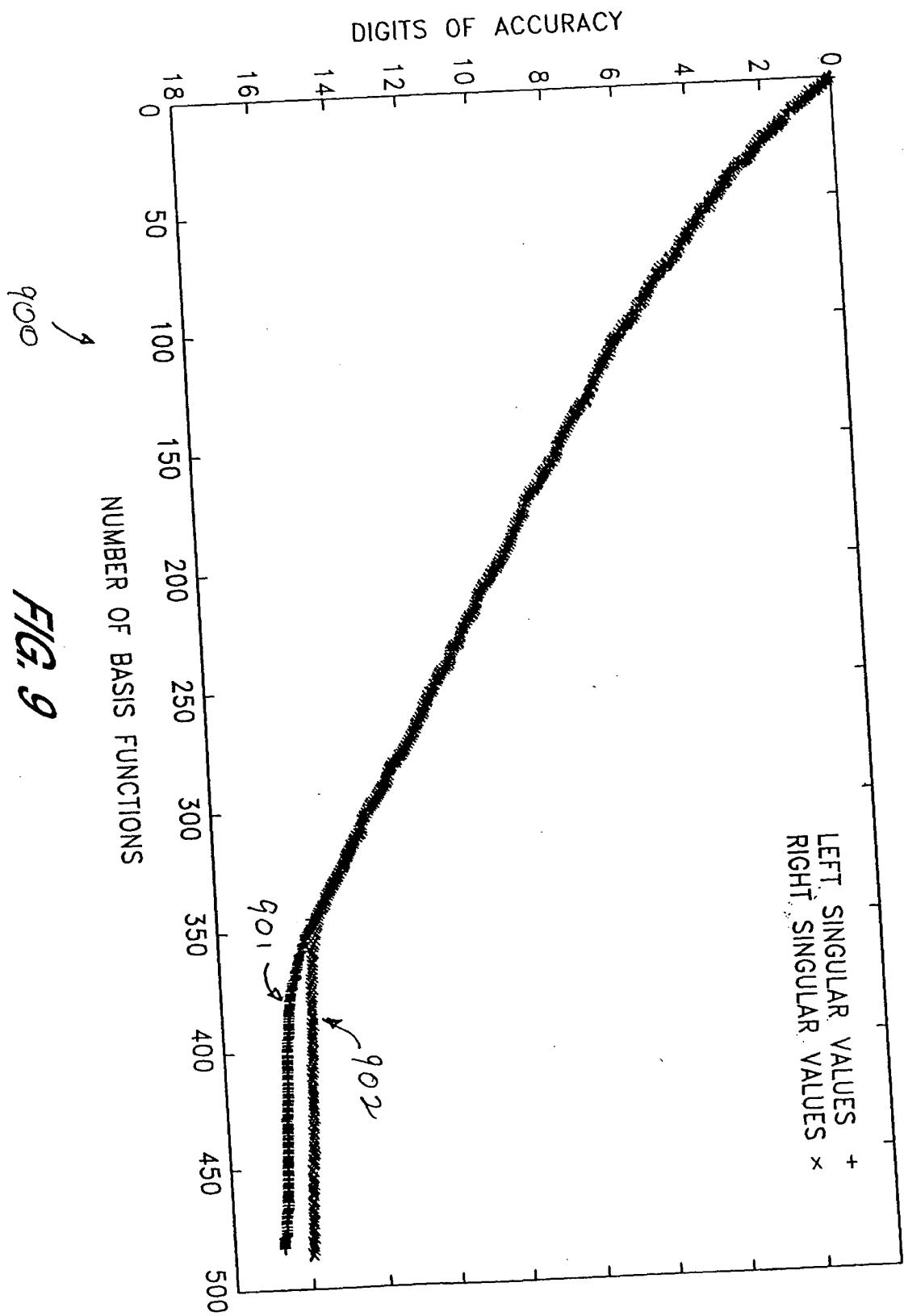


FIG. 8



10A
10B

SPARSE AND EFFICIENT BLOCK FACTORIZATION FOR
INTERACTION DATA
Francis X. Canning
Appl. No.: Unknown Atty Docket: CANNING.001CP2

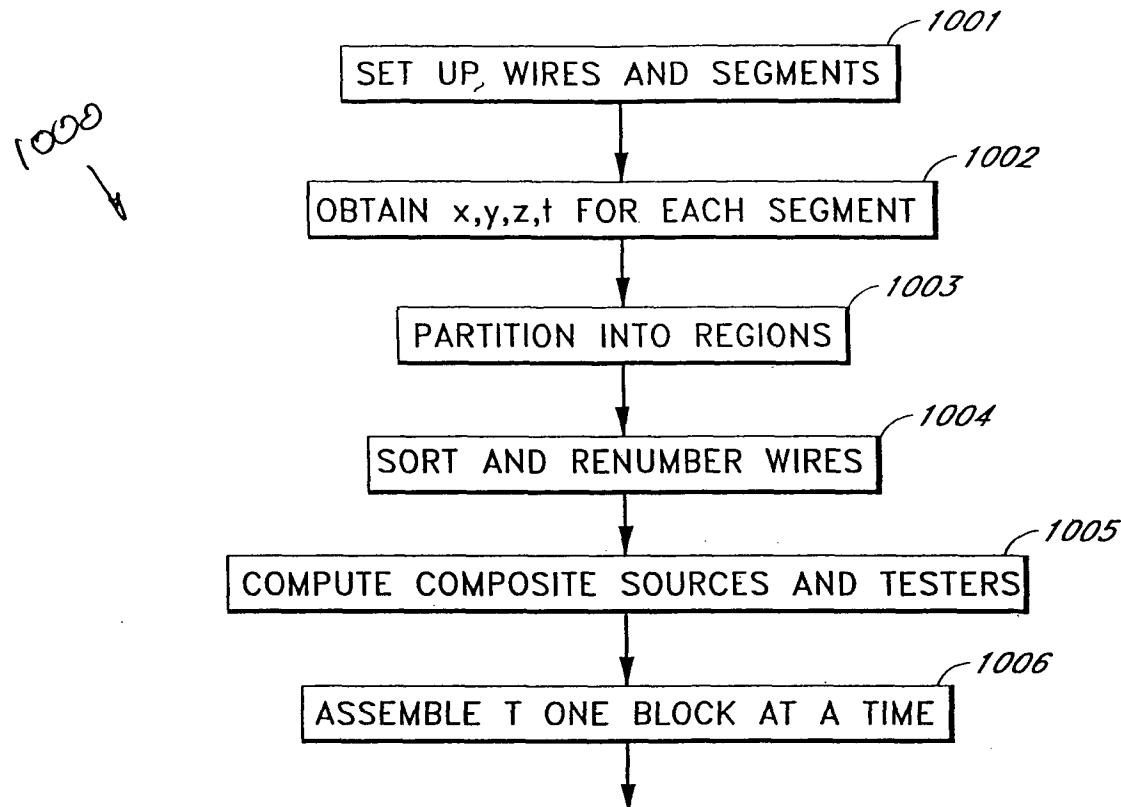
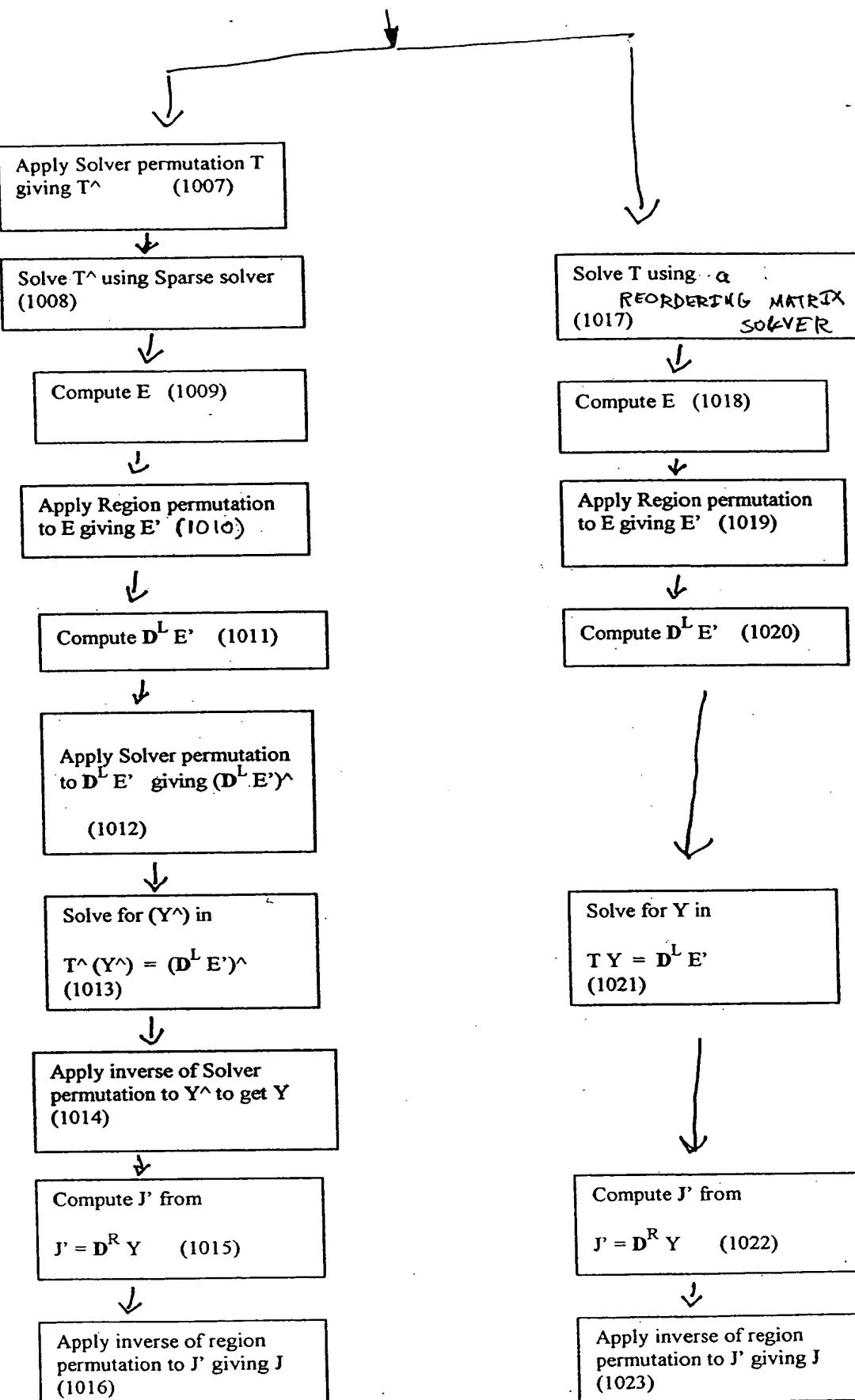


FIG. 10A



Log(base 10) of Magnitude

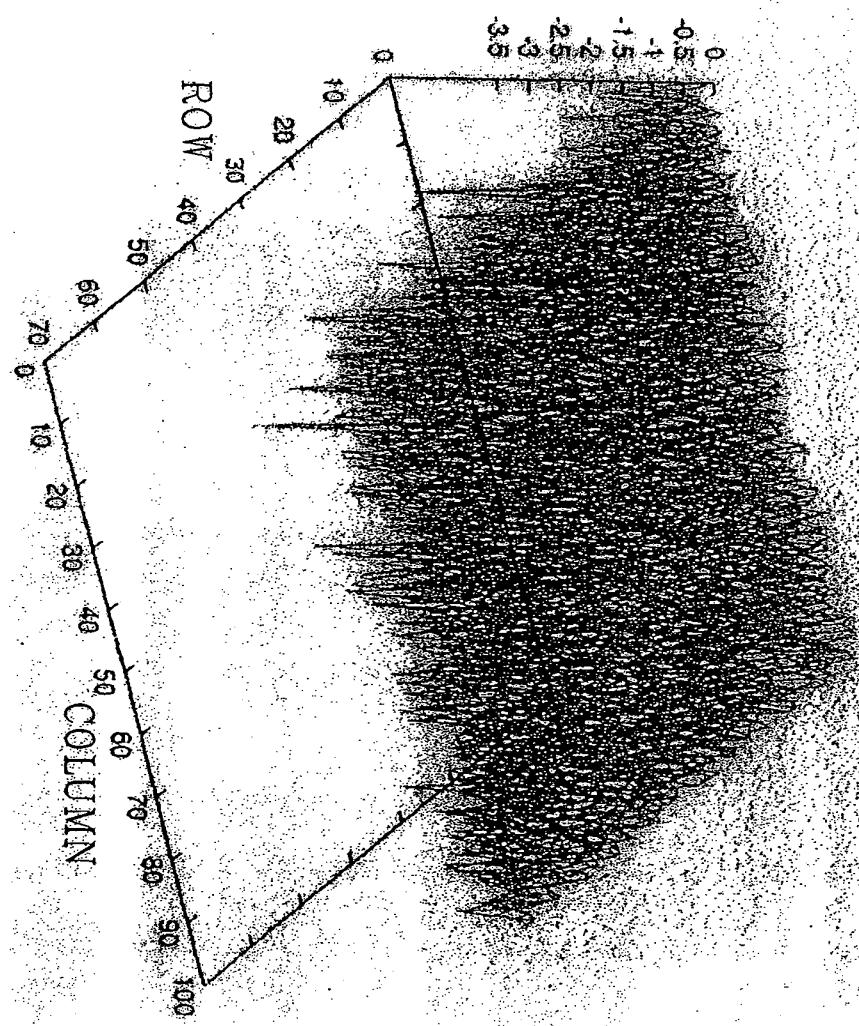
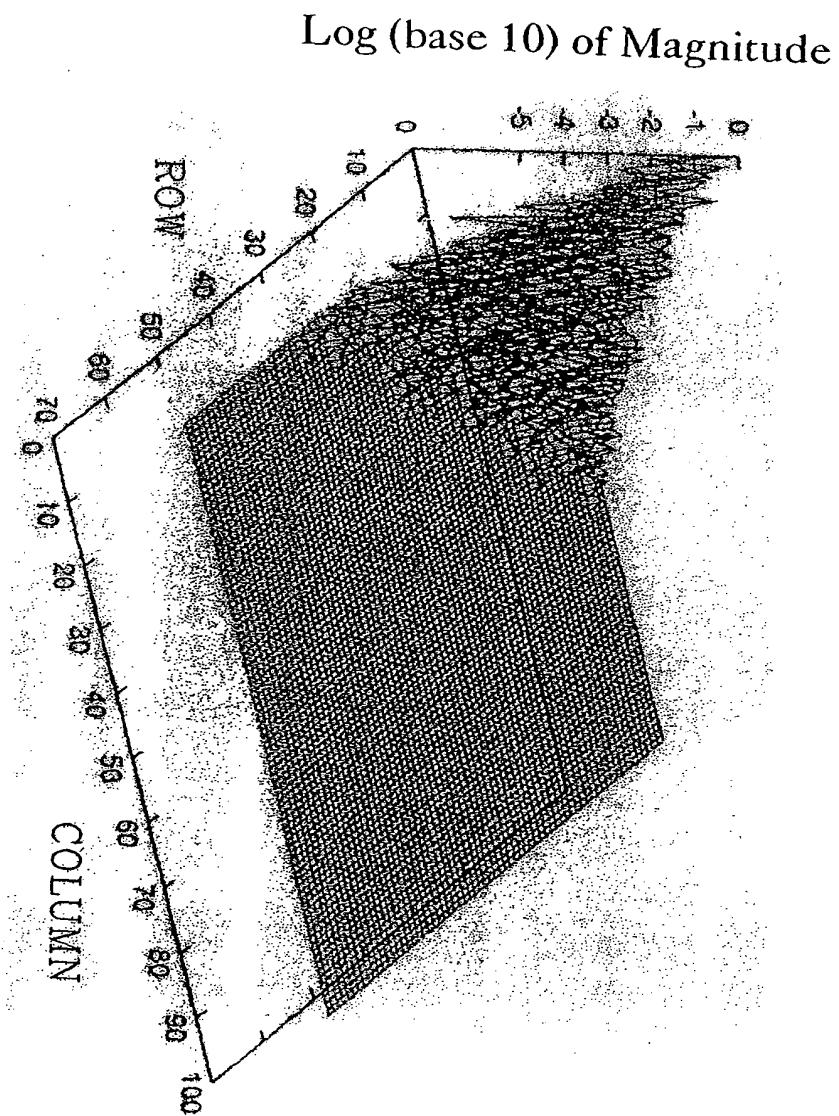


FIG. 11

FIG. 12

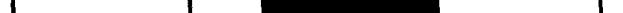


*SPARSE AND EFFICIENT BLOCK FACTORIZATION FOR
INTERACTION DATA*
Francis X. Canning

$$\tilde{A}_{ij} = \begin{array}{|c|c|}\hline & \text{black square} \\ \hline \end{array} \quad i > j$$

$$B_{i,j} = \begin{array}{|c|c|}\hline & \blacksquare \\ \hline \end{array} \quad i < j$$

$$\mathbf{B}_{j,j}^{-1} =$$


$$\mathbf{A}_{i,j} = \tilde{\mathbf{A}}_{i,j} \mathbf{B}_{j,j}^{-1} :$$


$$A_{i,k} B_{k,j} =$$

FIG 13

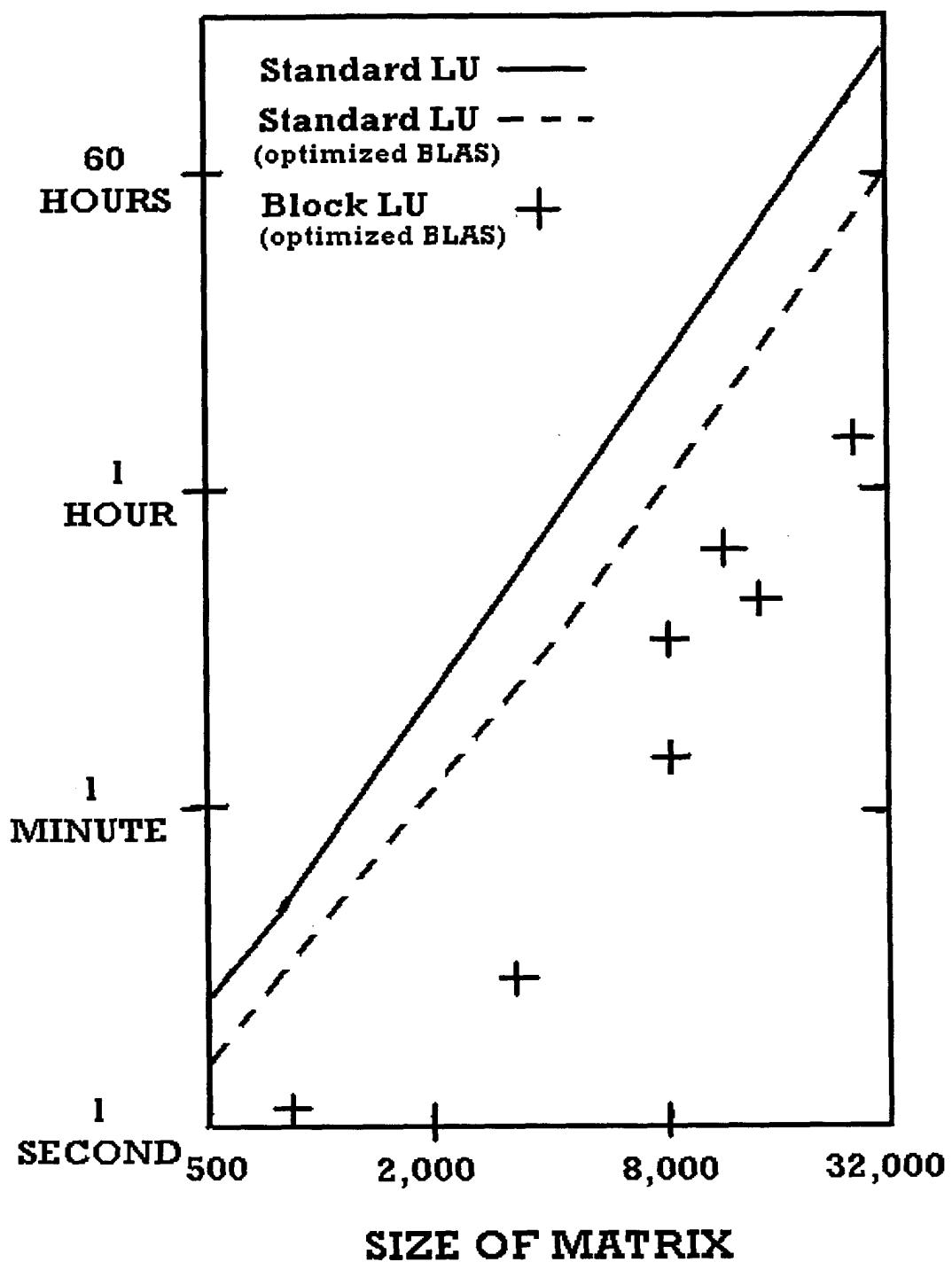


FIG 14